

CLAIM AMENDMENTS

1- 51. (canceled)

52. (new) A laminate superconducting article comprising:

- a. a substrate;
- b. a biaxially textured buffer system on said substrate, said biaxially textured buffer system comprising at least an intermediate layer of TiN on said substrate, an Ir buffer layer on said TiN layer, and at least one epitaxial buffer layer on said Ir buffer layer; and
- c. an epitaxial layer of a superconductor on said biaxially textured buffer system.

53. (new) A laminate superconducting article in accordance with claim 52 wherein said at least one epitaxial buffer layer is a first buffer layer, and said biaxially textured buffer system further comprises an epitaxial second buffer layer on said first buffer layer.

54. (new) A laminate superconducting article in accordance with claim 53 wherein said biaxially textured buffer system further comprises an epitaxial third buffer layer on said second buffer layer.

55. (new) A laminate superconducting article comprising:

- a. a substrate;
- b. a biaxially textured buffer system on said substrate, said biaxially textured buffer system comprising at least an Ir buffer layer, and at least one epitaxial buffer layer on said Ir buffer layer, said buffer layer comprising at least one buffer selected from the group consisting of $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$, LaCoO_3 , $\text{La}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$, and La_2CuO_4 ; and
- c. an epitaxial layer of a superconductor on said biaxially textured buffer system.

56. (new) A laminate superconducting article in accordance with claim 55 wherein said at least one epitaxial buffer layer is a first buffer layer, and said biaxially textured buffer system further comprises an epitaxial second buffer layer on said first buffer layer.
57. (new) A laminate superconducting article in accordance with claim 56 wherein said biaxially textured buffer system further comprises an epitaxial third buffer layer on said second buffer layer.
58. (new) A laminate superconducting article comprising:
- a. a substrate comprising biaxially textured Ir;
 - b. a biaxially textured buffer system on said substrate, said biaxially textured buffer system comprising at least one buffer layer comprising at least one buffer selected from the group consisting of $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$, LaCoO_3 , $\text{La}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$, and La_2CuO_4 ; and
 - c. an epitaxial layer of a superconductor on said biaxially textured buffer system.
59. (new) A laminate superconducting article in accordance with claim 58 wherein said at least one buffer layer is a first buffer layer, and said biaxially textured buffer system further comprises an epitaxial second buffer layer on said first buffer layer.
60. (new) A laminate superconducting article in accordance with claim 59 wherein said biaxially textured buffer system further comprises an epitaxial third buffer layer on said second buffer layer.